

CLAIMS

1. A damper seal for vibration control, the seal comprising an entrant surface for close association with an aperture in a mounting platform for components, the entrant surface having contact portions to engage the aperture to allow vibrational coupling therebetween and recessed paths to allow coolant flow about those contact portions across the entrant surface, said paths being both angled and staggered relative to one another.
2. A seal as claimed in claim 1 wherein the paths are formed by direct channels or grooves which extend across the entrant surface.
3. A seal as claimed in claim 1 wherein the paths are cross hatched across the entrant surface in order to cause turbulence within the coolant flow.
4. A seal as claimed in claim 1 wherein the paths have an elliptical cross-section.
5. A seal as claimed in claim 1 wherein the contact portions have a diamond or circular or other shape in order to facilitate coolant flow across the entrant surface through the paths.
6. A seal as claimed in claim 1 wherein the entrant surface has a sloped ridge configuration.
7. A seal as claimed in claim 1 wherein the entrant surface is configured for association with the aperture in order to substantially plug that aperture.
8. A seal as claimed in claim 1 wherein the entrant surface is designed through differential thermal expansion to present the paths with variable available cross-section for coolant flow.

9. A damper seal as claimed in claim 1 wherein the seal is formed from seal elements held in close association with respective surfaces in abutment to form the seal.
10. A seal as claimed in claim 9 wherein the respective surfaces are vertical and include grooves in one or both to define further recessed paths for coolant flow.
11. A damper seal arrangement comprising a damper seal as claimed in claim 1 to 12 secured within an aperture of a mounting platform structure for turbine blades or aerofoils, the platform structure including a coolant cavity and the damper seal coupled to that cavity to enable coolant to flow across the entrant surface.
12. A turbine engine including a damper seal as claimed in claim 1.